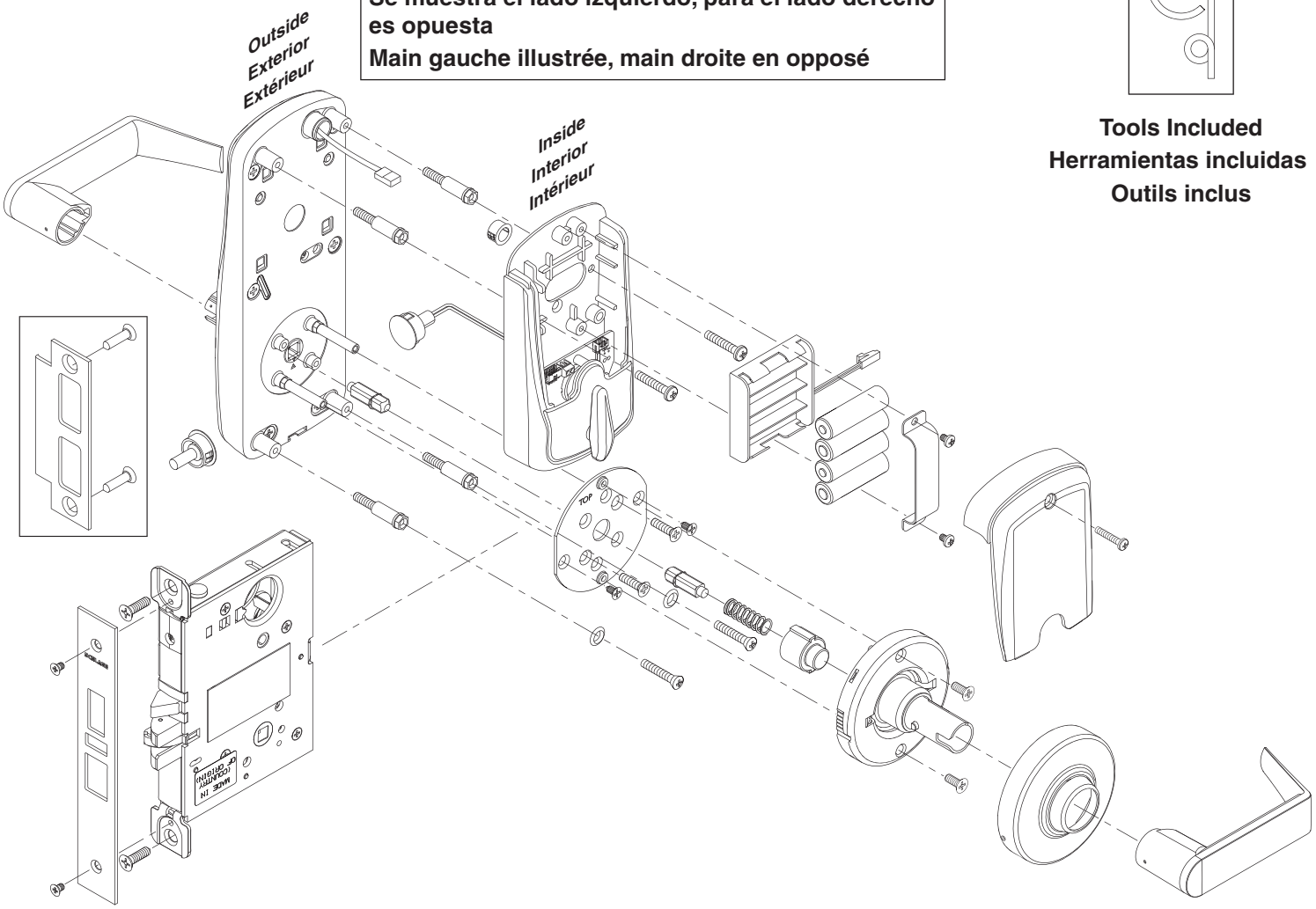
P516-267

CO-Series for Mortise
Serie CO para Cerradura de muesca
Séries CO - pour la mortaise

Instrucciones de instalación | Installation Instructions | Notice d'installation

Left Hand Shown, Right Hand Opposite
Se muestra el lado izquierdo, para el lado derecho es opuesta
Main gauche illustrée, main droite en opposé



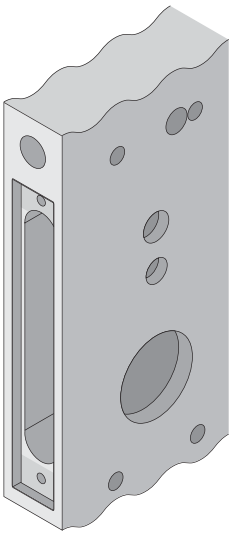
Tools Included
Herramientas incluidas
Outils inclus

1

Prepare Door
See template.

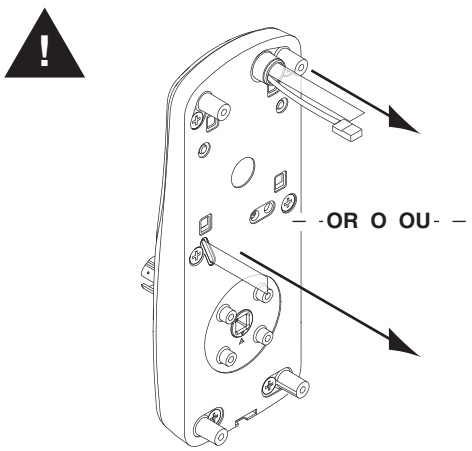
Prepare la puerta
Consulte la plantilla.

Préparez la porte
Consultez le gabarit.



2

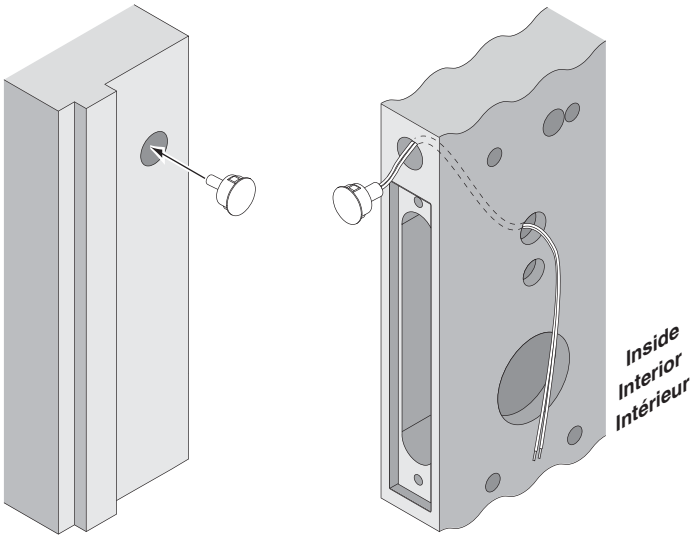
If Insulator Strip is Present, Carefully Remove it
Si hay una tira aislante, retírela con cuidado
Si la bande isolante est présente, l'enlever soigneusement



3

If Included, Install Door Position Switch (DPS)
Si incluido, instale el interruptor para posición de la puerta (DPS)
Si inclus, installez le commutateur de position de porte

Ensure Alignment on Door and Jamb
Asegure que la puerta y la jamba estén alineadas
Assurez l'alignement avec la porte et le montant



4

Check Lever Handing

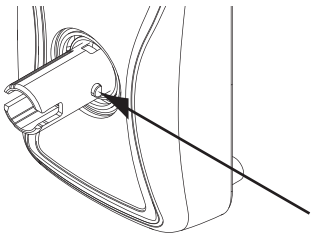
See "Rehanding" on back page if pin is not toward latch

Verifique el lado de la palanca

Consulte "Cambiar de lado" en la última página si el pin no apunta hacia el cerrojo

Vérifiez le déplacement du levier

Consultez le chapitre "Déplacement" si la broche n'est pas orientée vers le loquet

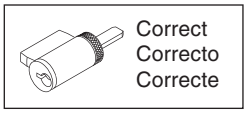


5

Verify Tailpiece is Horizontal

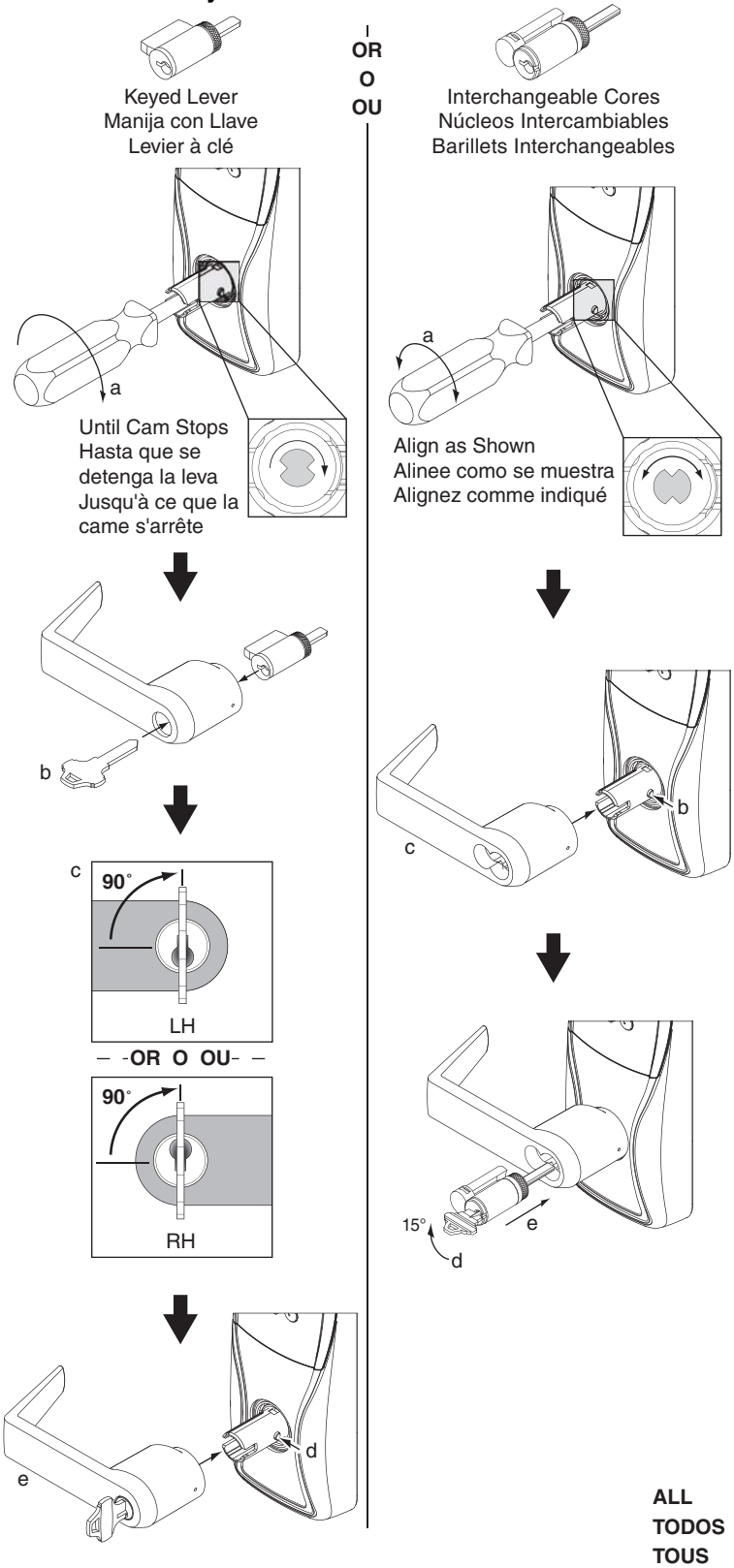
Verifique que la pieza posterior se encuentre en posición horizontal

Vérifiez que la queue de pêne soit horizontale



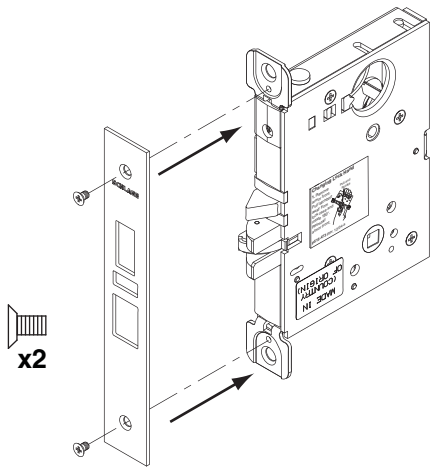
6

Install Cylinder and Lever
Instale el cilindro y la palanca
Installez le cylindre et le levier



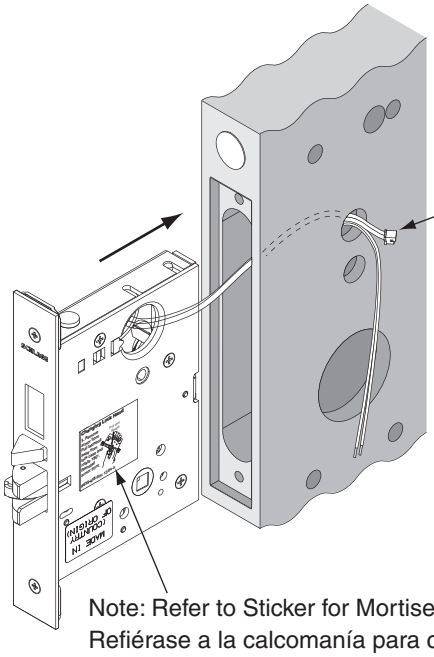
ALL
TODOS
TOUS

7



8

Slide Mortise Lock Into Door
Deslice la cerradura de muesca en la puerta
Faites glisser la serrure à mortaise dans la porte

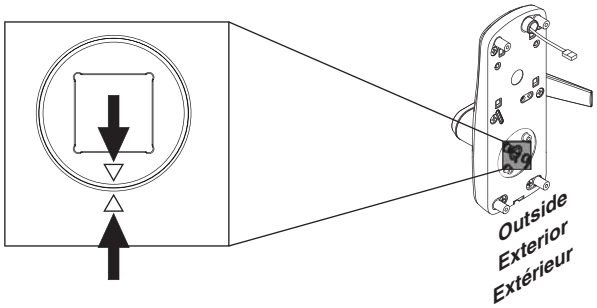


If Present, Route Cable
Si hay un cable, instálelo
Si présent, placer le câble

Note: Refer to Sticker for Mortise Rehanding
Refiérase a la calcomanía para cambiar la muesca de lado
Consultez l'autocollant pour le déplacement de la mortaise

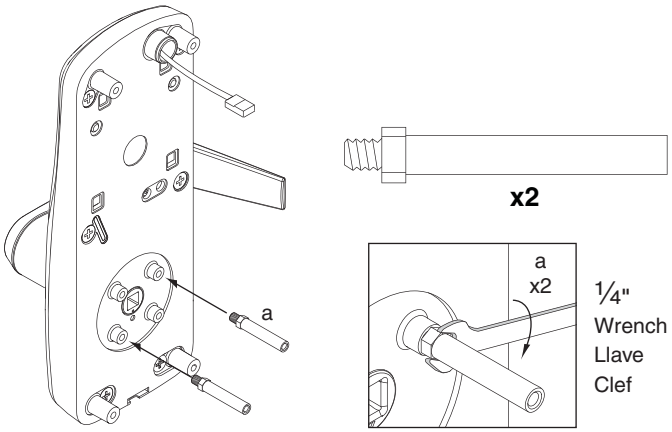
9

Align Triangles
Asegure que los triángulos de orientación estén alineados
Assurez-vous du bon alignement des triangles d'orientation



10

Install Outside Spindle and Standoffs
Instale el eje y los distanciadores exteriores
Installez l'axe de la poignée et les chevilles



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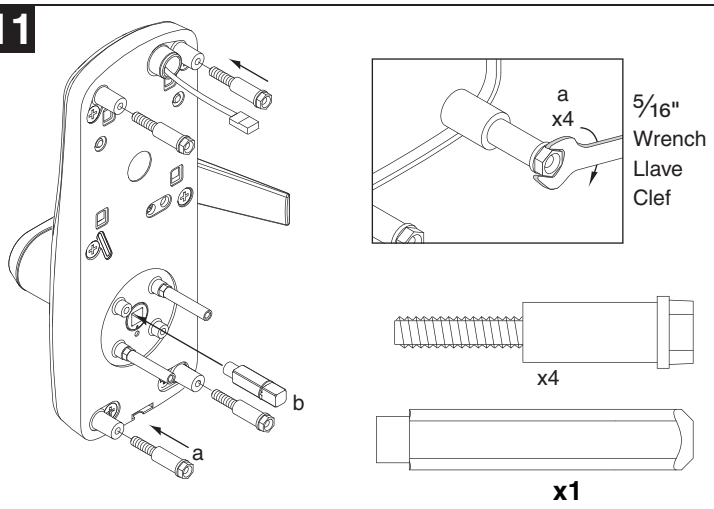
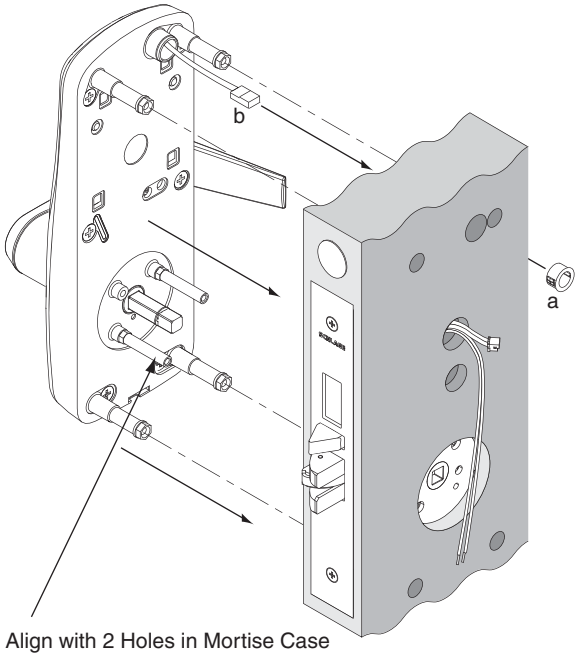


12

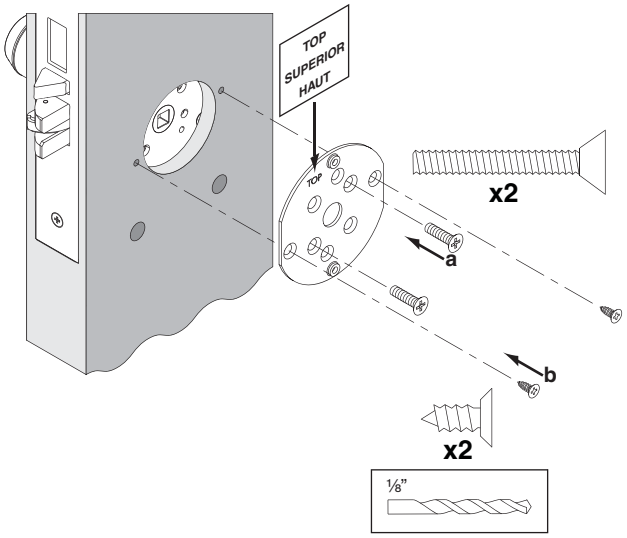
Install Bushing and Outside Escutcheon
Instale la planchuela exterior y el casquillo
Installer la douille et l'entrée de serrure extérieure



Stand-offs Align with 2 Holes in Mortise Case
Los puntos muertos se alinean con 2 orificios en la caja con muesca
Le montage vertical s'aligne avec les 2 trous situés dans le boîtier de mortaise

13

Install Plate
Instale la placa
Installez la plaque



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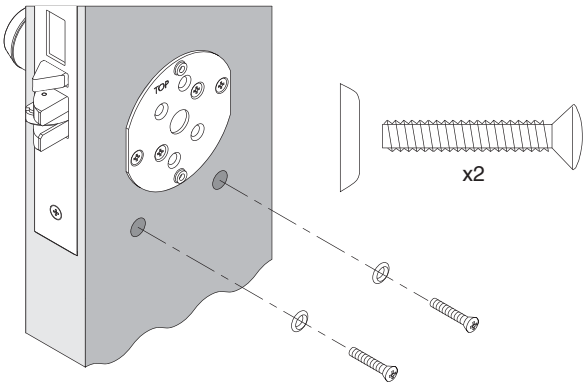

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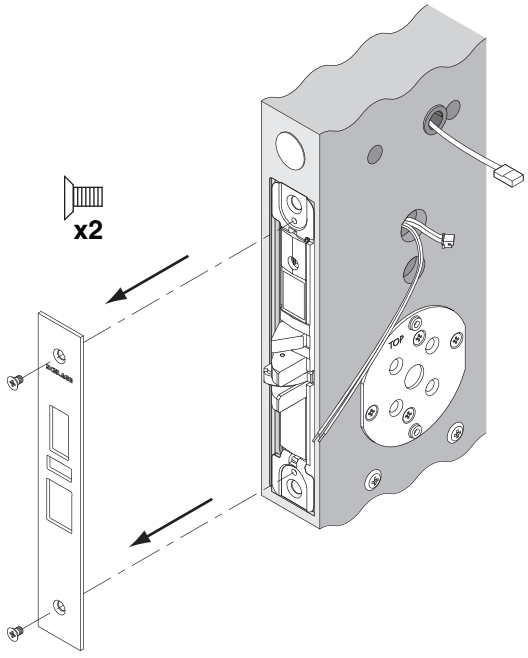


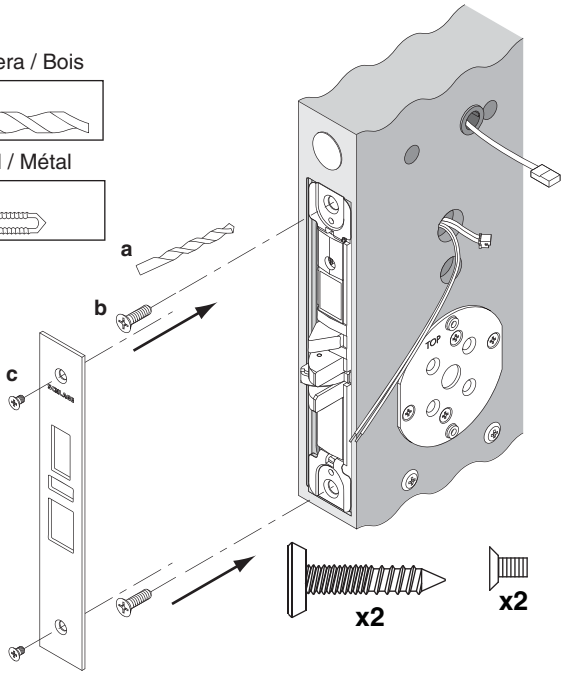
16

Wood / Madera / Bois

#16

Metal / Metal / Métal

#12-24



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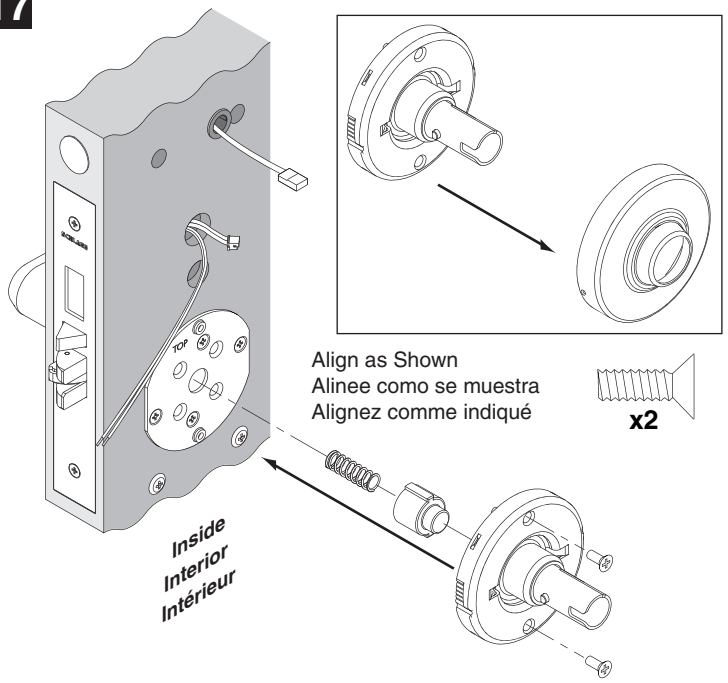
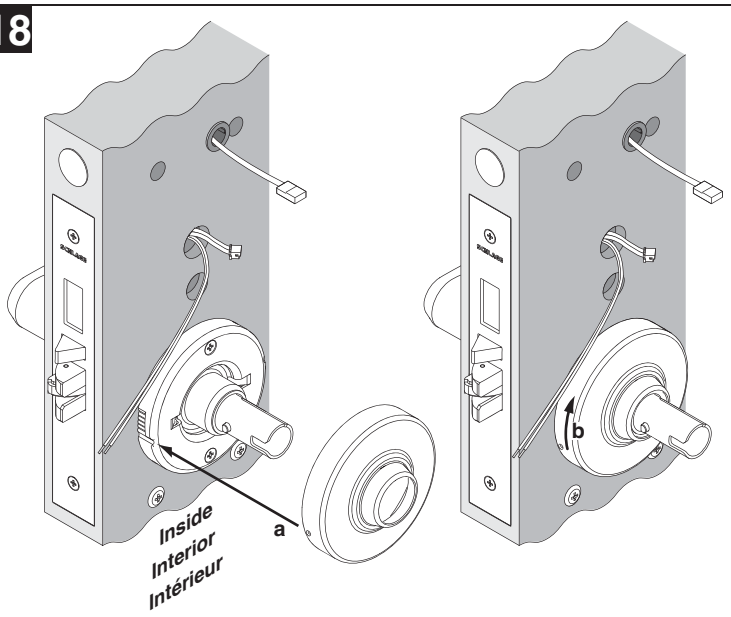


Align as Shown
Alinee como se muestra
Alignez comme indiqué

x2

18



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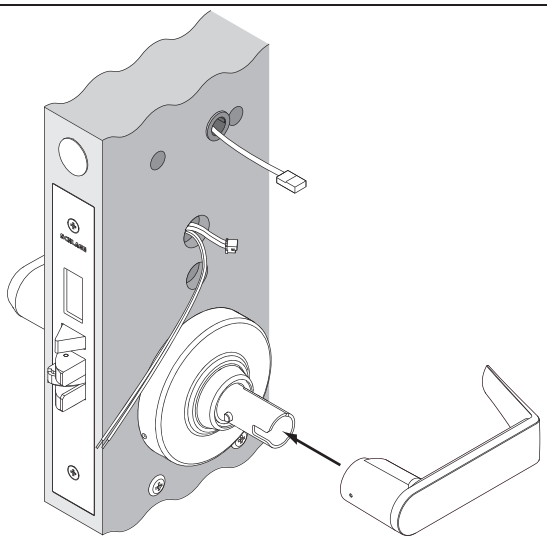
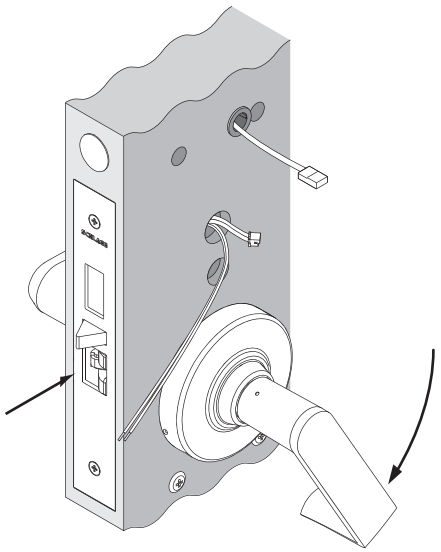
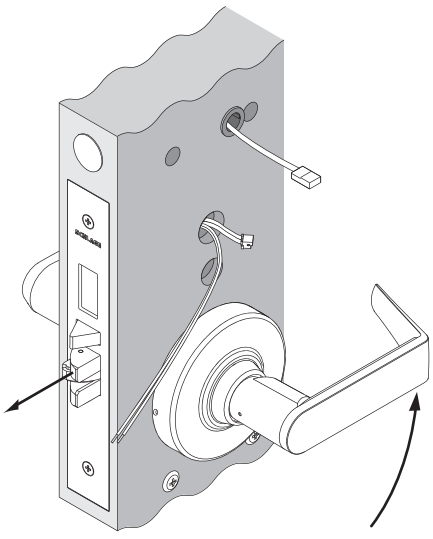


20 **Test Mechanical Function**
Pruebe la función mecánica
Faire un essai de la fonction mécanique

a. Rotate lever down and verify that latch retracts fully
a. Rote la palanca hacia abajo y verifique que el pestillo se retraiga totalmente
a. Tournez le levier vers le bas et vérifiez que le loquet se rétracte complètement

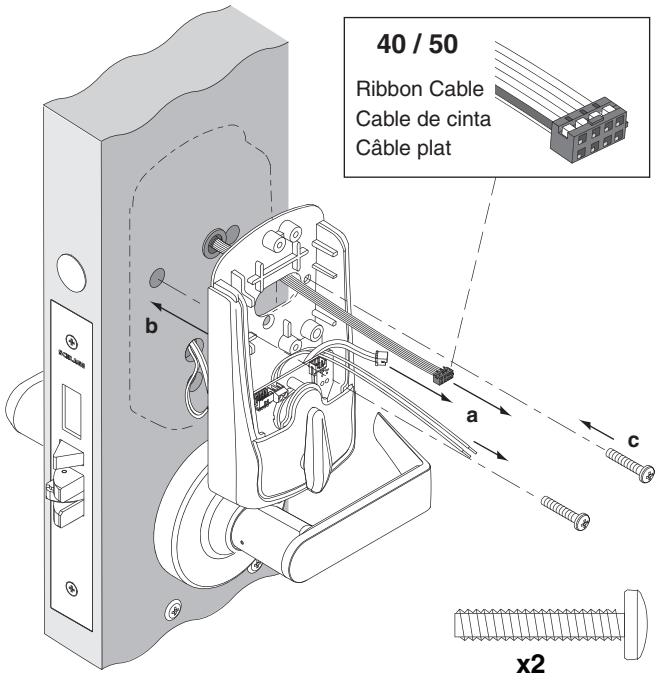


b. Release lever and verify that latch extends fully
b. Suelte la palanca y verifique que el pestillo se extienda por completo
b. Relâcher le levier et vérifiez que le loquet s'allonge complètement



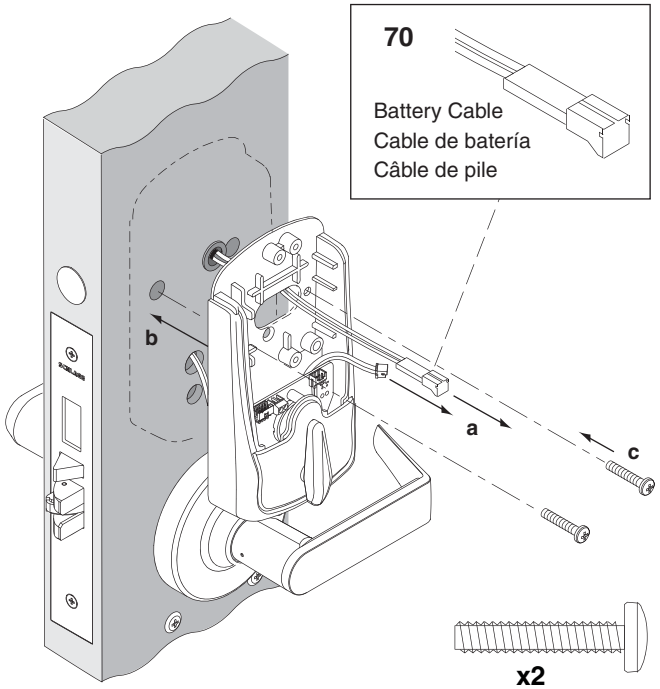
21 **Route Wires and Install Inside Escutcheon**
Dirija los cables e instale la planchuela interior
Acheminer les fils et installer l'entrée de serrure intérieure

Office (40) or Privacy (50) Functions
Funciones de oficina (40) o de privacidad (50)
Fonction Bureau (40) ou Privé (50) y



OR O OU

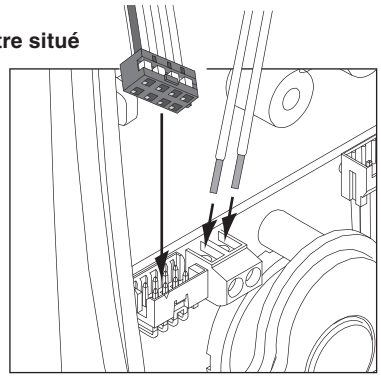
Classroom/Storeroom (70) Function
Función salón de clases/almacén (70)
Fonction Classe/Entrepôt (70)



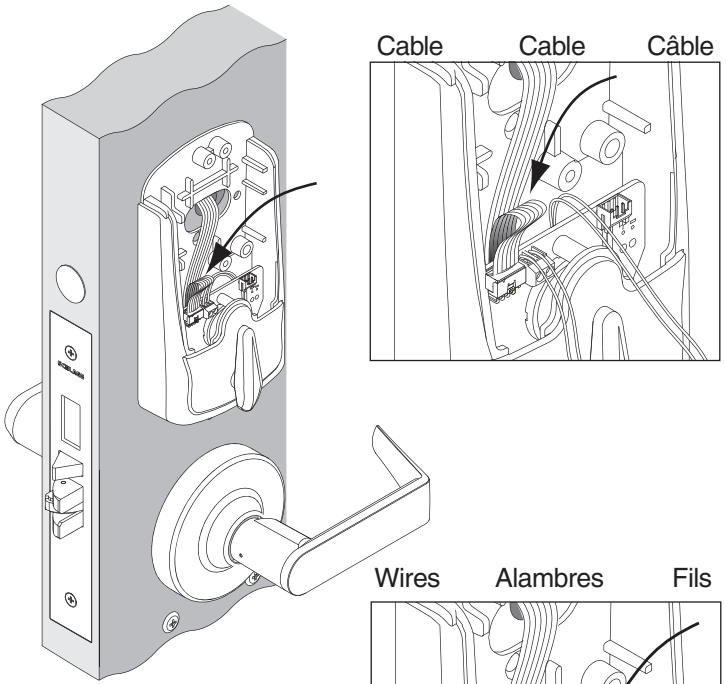
22 **Follow Steps Below if 40 or 50 Function Only**
If 70 Function, Go to Step 22
Siga los pasos que se enumeran a continuación si sólo desea las funciones 40 o 50
Si se trata de la funcion 70, vaya al paso 22
Pour les fonctions 40 et 50 seulement, suivez les étapes ci-dessous
Pour les fonctions de la 70, passez à l'étape 22

A **Install Ribbon Cable and DPS Wires**
Instale el cable plano y los cables DPS
Installez le câble plat et les fils du commutateur de position de porte

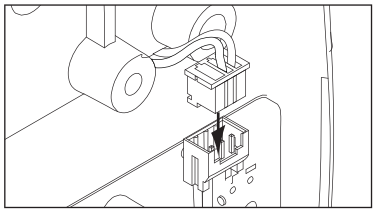
Red Wire MUST Be On Left
El cable rojo DEBE estar a la izquierda
Le fil rouge DOIT être situé à la gauche



B **Tuck Cable and Wires as Shown**
Ajuste el cable y el resto de los mismos como se exhibe
Grouper le câble et les fils comme illustré

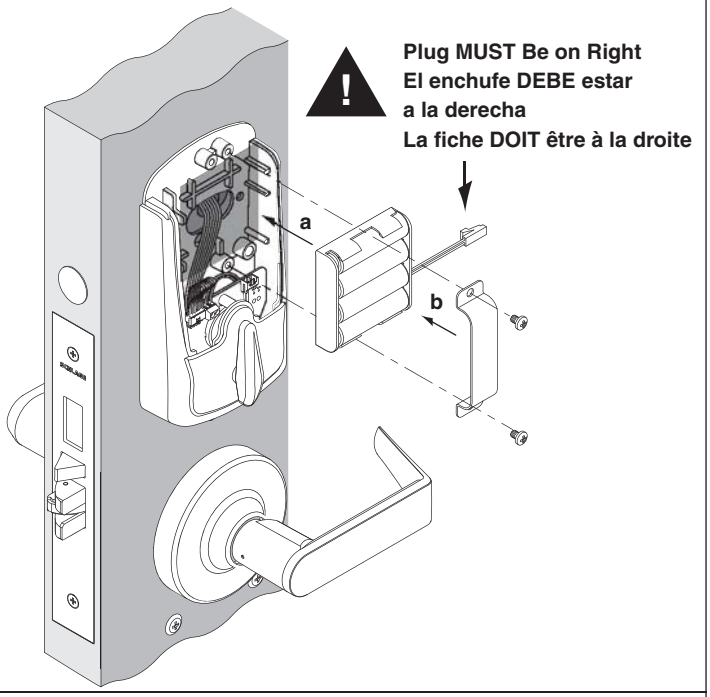


23 **If Deadbolt, Connect Plug**
Si es cerrojo de seguridad, conecte la clavija
Dans le cas d'un pêne dormant, connectez le bouchon

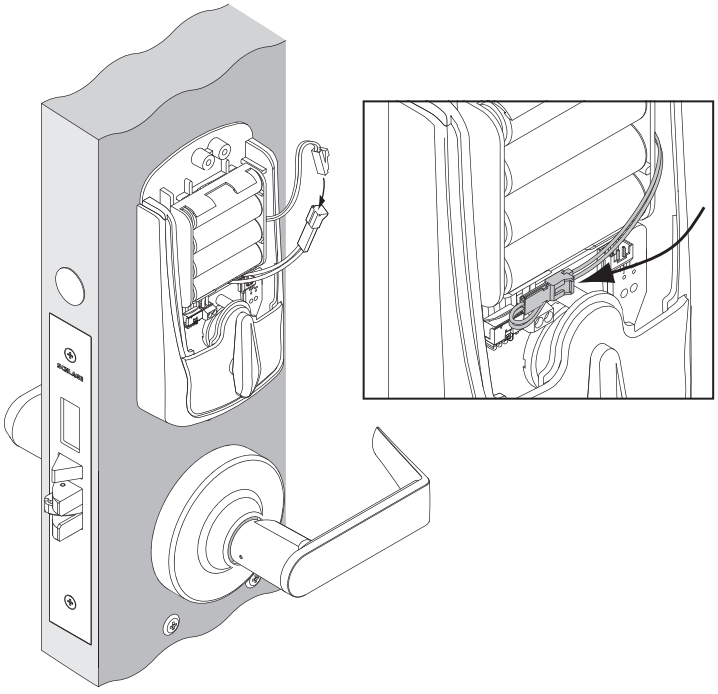


24 **Install Battery Holder and Strap**
Instale el soporte para la batería y la correa
Installer le porte-piles et la sangle

Plug MUST Be on Right
El enchufe DEBE estar a la derecha
La fiche DOIT être à la droite



25 **Connect Battery Plug and Tuck as Shown**
Conecte el enchufe de la batería y ajuste como se exhibe
Brancher la fiche de la pile et grouper comme illustré



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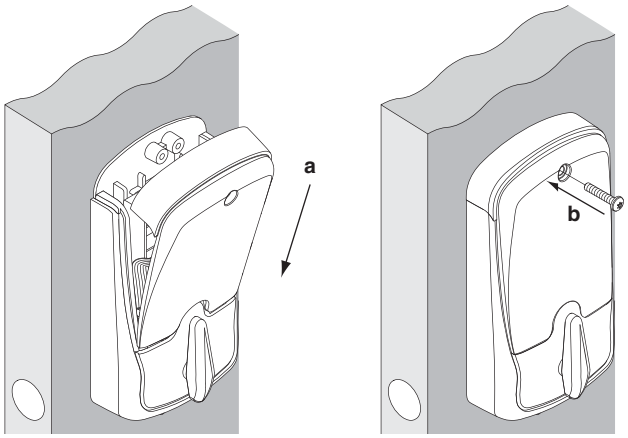
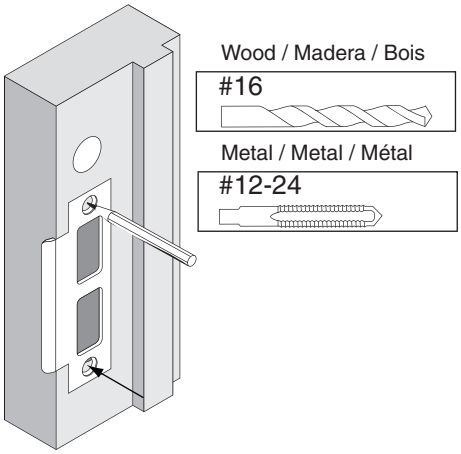
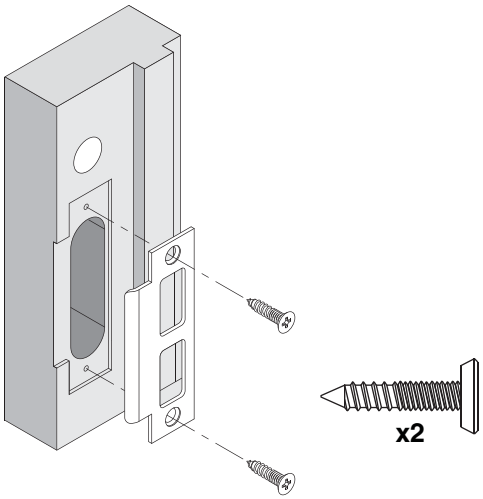


27 **Prepare Frame**
Prepare el marco
Préparez le dormant

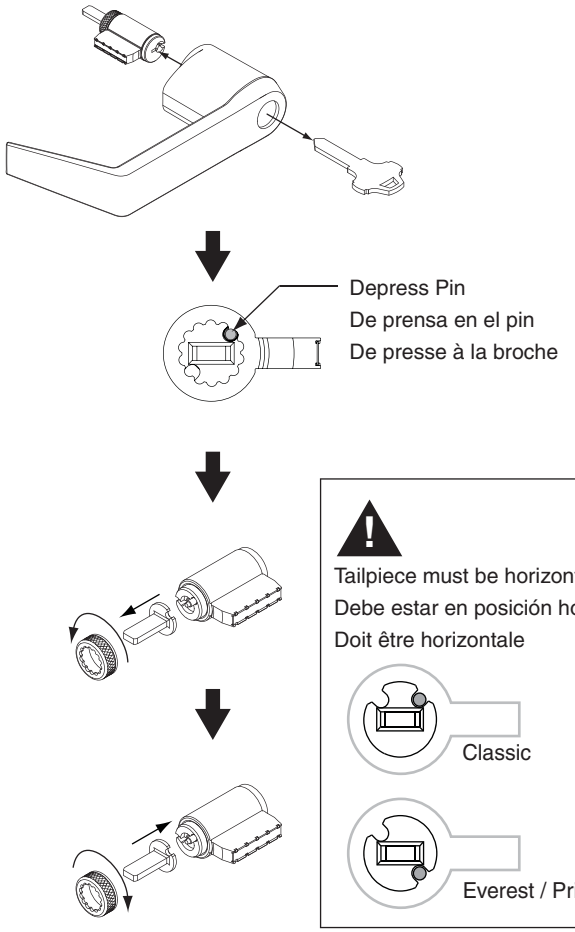


28 **Install Strike**
Instalar el cerrojo
Installez la gâche

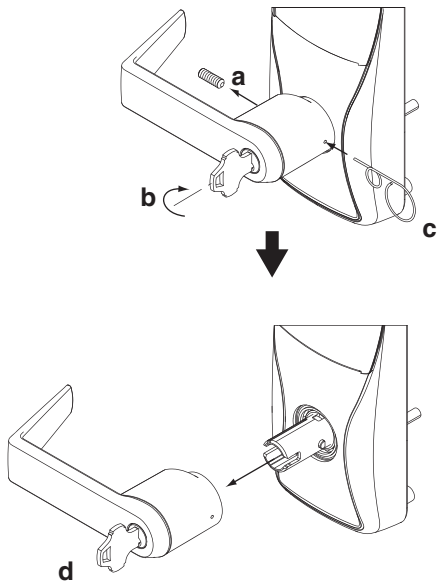


29 **After Installing the Lock, See the User Guide for Setup and Operation.**
Después de instalar la cerradura, consulte la Guía del usuario para configuración y operación.
Après avoir installé la serrure, consultez le guide d'utilisation pour le montage et le fonctionnement.

Changing the Cylinder's Tailpiece
Cambiar la pieza posterior del cilindro
Remplacement de l'embout du cylindre

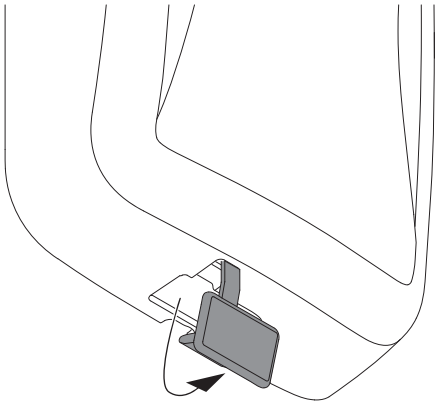


Future Lever Removal
Remoción futura de la palanca
Démontage ultérieur du levier

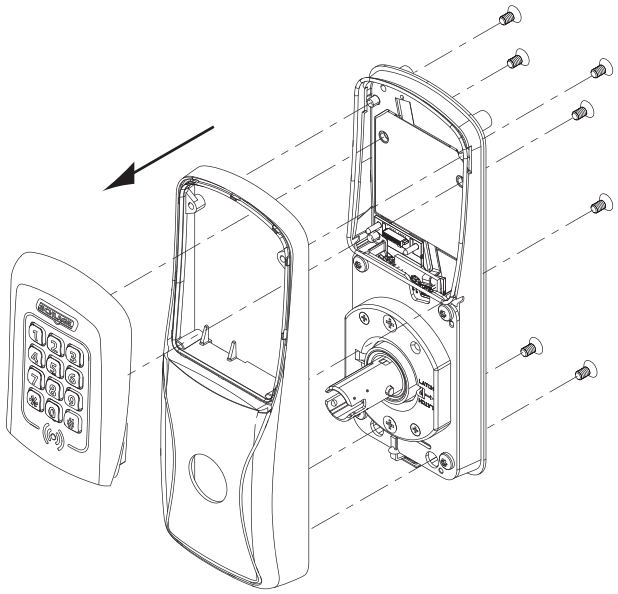


Rehanding
Cambio de lado
Déplacement

a. If Present, Remove USB plug
a. Si hay un enchufe USB, retírelo
a. Si présent, retirer la prise USB



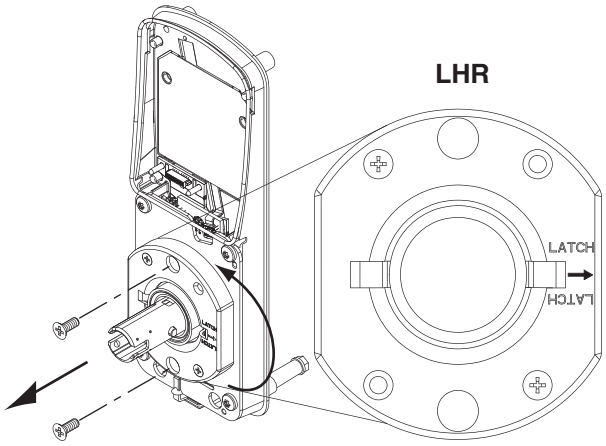
b. Remove Reader and Cover From Baseplate
b. Retire el lector y la cubierta desde la placa base
b. Retirer le lecteur et le couvercle de la plaque de base



NOTE: On Keypad Only Applications, Reader is Not Removable!
En las aplicaciones sólo para teclado el lector no se puede quitar
Pour les applications sur clavier uniquement, le lecteur n'est pas amovible!

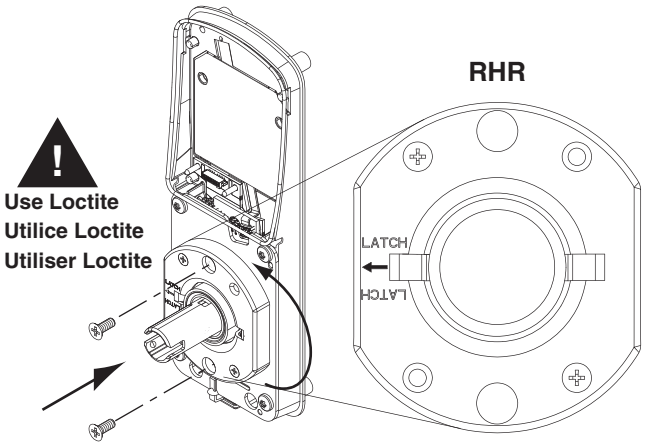
c. Remove Spring Cage, Align Arrow with Latch, and Reinstall
c. Retire la caja de resorte, alinee la flecha con el pestillo y reinstale
c. Retirez la cage à ressorts, alignez la flèche au loquet et réinstallez

LHR

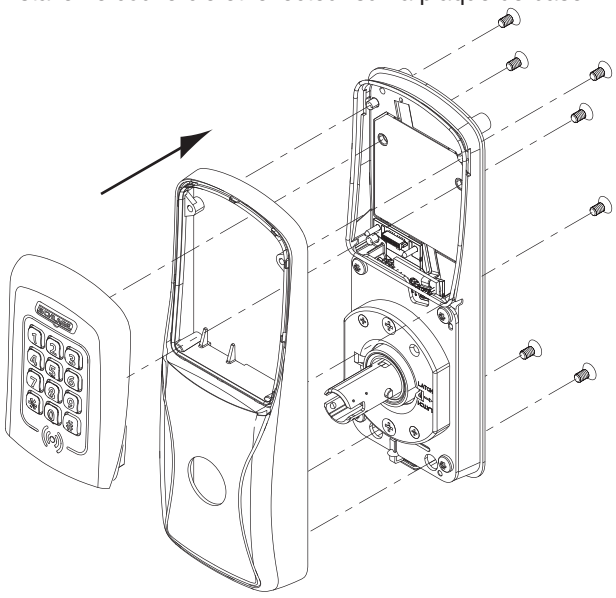


RHR

Use Loctite
Utilice Loctite
Utiliser Loctite



d. Reinstall Cover and Reader onto Baseplate
d. Vuelva a instalar la cubierta y el lector en la placa base
d. Réinstaller le couvercle et le lecteur sur la plaque de base



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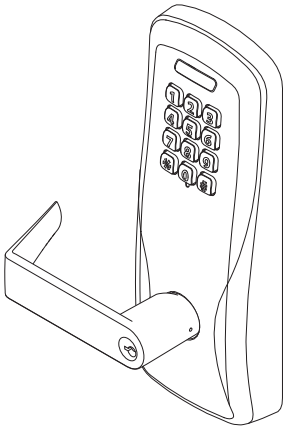
Ingersoll Rand
Security Technologies

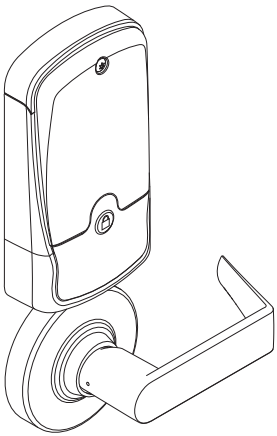
P516-270

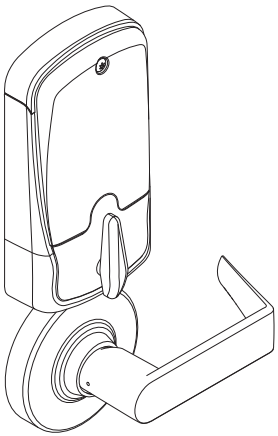
CO-100

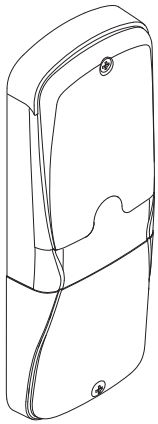
Offline lock user guide

Instructions for CO-Series offline locks









Para el idioma español, navegue hacia www.schlage.com/support.
Pour la portion française, veuillez consulter le site www.schlage.com/support.

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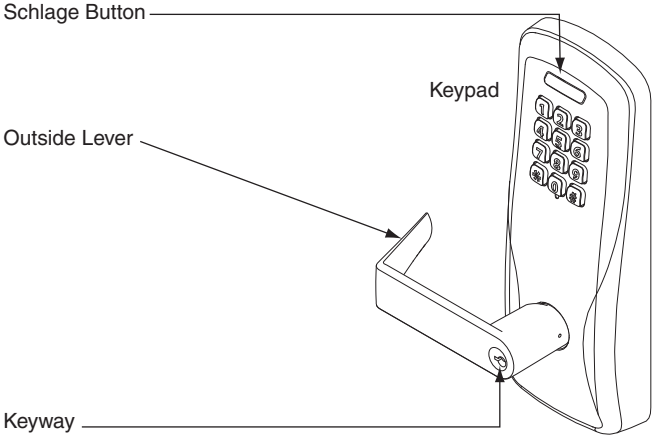
This product is compliant of UL 294 and ULC S319 standard. This product's compliance would be invalidated through the use of any add-on, expansion, memory or other module that has not yet been evaluated for compatibility for use with this UL Listed product, in accordance with the requirements of the Standards UL 294 and ULC S319. This product has been evaluated for ULC-S319 Class I.

Overview

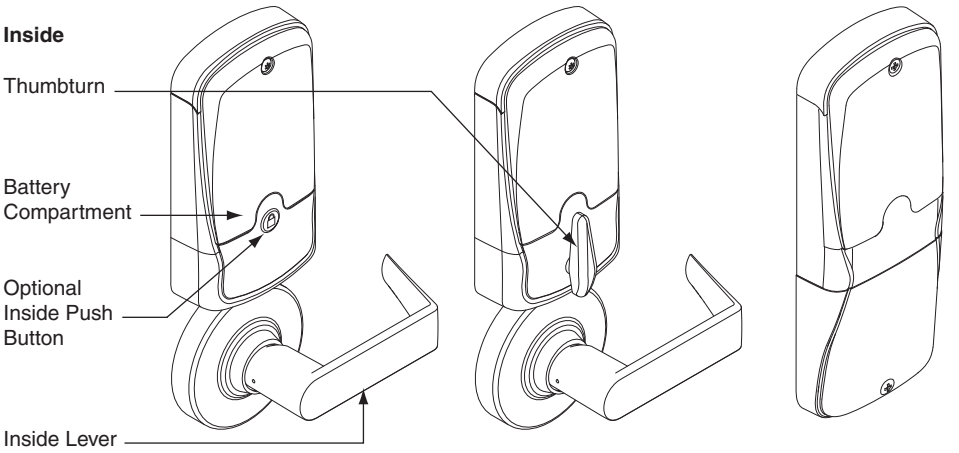
The Schlage CO-100 is a keypad-only off-line electronic lock in the CO-Series product line.

- This product is listed for UL 294 and ULC S319.
- Two factory-configured functions are available: 1) Classroom/Storeroom, and 2) Office.
- The lock is powered by four (4) AA batteries. See *Batteries* on page 11 for more information.
- Outside lever is normally locked.
- Inside lever always allows egress.

Outside



Inside



CO-100-CY
CO-100-MS

CO-100-MD

CO-100-993

Getting started

Follow these steps when setting up a new lock.

1. Install the lock. See the installation guide that came with the lock, or visit www.schlage.com/support, for more information.
2. Test the lock for proper mechanical and electronic operation. See *Test lock operation* on page 8 for more information.
3. When ready to set up for normal use, enter a new programming code, then program the user credentials. See *Manual lock programming* on page 5 for more information.
4. Familiarize yourself with the information in this guide.

Save this user guide for future reference.

Construction access mode

Construction access mode is used to allow access before the lock has been programmed, and for testing purposes. Construction access mode is enabled by default.

Offline locks with keypads have a default PIN of 13579 and "#", which can be used for installation, testing and construction access.

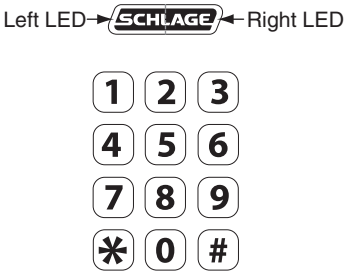
- To test, enter the default PIN (13579 and "#").
- The Schlage button will blink and the lock will unlock.
- The default PIN is automatically deleted when a new programming credential is created.

TIP

If you press the default PIN code on a new lock and the code is not accepted, the lock has already been programmed.

If the new PIN is not known, or to put the lock back into construction access mode, reset the lock to factory settings. See *Reset to factory defaults* on page 10 for more information.

Manual lock programming



Credential types

Credential type	Function	Description	Default PIN
Programming	Used to program the lock – does not unlock the lock	Five-digit code	97531 and *
Normal use	Unlocks the lock momentarily	PIN (3 - 6 digits)	13579 and #
Toggle	Changes the state of the lock unless in Freeze state	PIN (3 - 6 digits)	
Freeze	Maintains the lock in current state until Freeze PIN is entered again	PIN (3 - 6 digits)	
Pass-Through	Unlocks a lock momentarily, regardless of state	PIN (3 - 6 digits)	

Programming legend

Symbol	Description
[Programming Code][1]	Five-digit code, identical to programming credential code listed in the credential types table.
[PIN]	Three- to Six-digit code. A PIN can be any of the PIN code types listed in the credential types table.
*	Asterisk key on the keypad
0 - 9	Number keys on the keypad
SCHLAGE	Schlage button

TIP

Use the same programming code for all locks in the facility.

1 Programming codes such as 1-1-1-1-1 or 1-2-3-4-5 can be easily selected by non-authorized users and should not be used.

Manual programming commands

- **Commands are confirmed by five alternating green blinks of the Schlage button.**
- **Programming mode will time out if no entry is made in 20-25 seconds. Timeout is indicated by red blinks of the Schlage button, three left and nine right at the same time.**
- **The right LED on the Schlage button will blink green to indicate an incorrect entry. To interpret blink patterns, refer to *Error codes* on page 7.**

Function	Press	Wait For Confirmation[1]
Change [Programming Code]	[Programming Code] ⊛ 7 ⊛ New [Programming Code] ⊛ New [Programming Code] ⊛	Wait for SCHLAGE to stop flashing between each step.
Add Normal Use PIN	[Programming Code] ⊛ 3 ⊛ ►New [PIN] ⊛ ⊛ add another PIN OR ⊛ to finish	Wait for SCHLAGE to stop flashing between each step.
Add Toggle PIN	[Programming Code] ⊛ 3 3 ⊛ 1 9 1 ⊛ ►New [PIN] ⊛ ⊛ add another PIN OR ⊛ to finish	Wait for SCHLAGE to stop flashing between each step.
Add Freeze PIN	[Programming Code] ⊛ 3 3 ⊛ 1 1 5 ⊛ ►New [PIN] ⊛ ⊛ add another PIN OR ⊛ to finish	Wait for SCHLAGE to stop flashing between each step.
Add Pass-Through PIN	[Programming Code] ⊛ 3 3 ⊛ 1 1 9 ⊛ ►New [PIN] ⊛ ⊛ add another PIN OR ⊛ to finish	Wait for SCHLAGE to stop flashing between each step.
Delete a PIN	[Programming Code] ⊛ 5 ⊛ [PIN] to be deleted ⊛ ⊛ to finish	Wait for SCHLAGE to stop flashing between each step.
Change Relock Time	[Programming Code] ⊛ 9 9 ⊛ 1 ⊛ Each button press adds to the total delay time Example: 1 + 9 adds a 10 second delay ⊛ to finish	Wait for SCHLAGE to stop flashing between each step.

1 Other lights may show before the final confirmation. Wait for final confirmation before continuing to the next step.
2 Change PIN length is available with firmware version 2.5.0 or higher.

Manual programming commands

- **Commands are confirmed by five alternating green blinks of the Schlage button.**
- **Programming mode will time out if no entry is made in 20-25 seconds. Timeout is indicated by red blinks of the Schlage button, three left and nine right at the same time.**
- **The right LED on the Schlage button will blink green to indicate an incorrect entry. To interpret blink patterns, refer to *Error codes* on page 7.**

Function	Press	Wait For Confirmation[1]
Disable/Enable Beeper	[Programming Code] ⊛	Wait for SCHLAGE to stop flashing between each step.
	9 9 ⊛	
	3 ⊛	
	0 ⊛ to disable beeper OR 7 ⊛ to enable beeper	
Change PIN Length[2]	[Programming Code] ⊛	Wait for SCHLAGE to stop flashing between each step.
	9 9 ⊛	
	4 ⊛	
	Press 3, 4, 5, OR 6 for desired PIN length	
	⊛ to finish	

1 Other lights may show before the final confirmation. Wait for final confirmation before continuing to the next step.
2 Change PIN length is available with firmware version 2.5.0 or higher.

Error codes

- **All error codes are indicated on the Schlage button by a solid red LED and a blinking green LED. The number of green blinks indicates the error code.**

Number of green blinks	Error code description
1	Computer programming error (not complete).
2	Too long programming/user code entered. Programming code must be five (5) digits. User code length cannot exceed eight (8) digits.
3	Memory full, too many codes. Delete some codes.
4	Programming code cannot be deleted, only changed.
5	Programming code entries do not match. Programming code not changed.
6	Invalid command. Invalid function code entered.
7	Code not found.
8	Code too short. Programming code length must be five (5) digits. User code minimum length is three (3) digits.
9	Not a unique code.
10	Manual programming not allowed.

Error code functions have not been verified by Underwriters Laboratories Inc.

Test lock operation

If you encounter problems while performing any of the following tests, review the installation guide and correct any problems.

Mechanical test

1. Rotate the inside lever or depress the push bar to open the door. Operation should be smooth, and the latch should retract.
2. Insert the key into the keyway and rotate the key and the outside lever to open the door. Operation should be smooth, and the latch should retract.

Electronic test

1. Press any number key. The lock will beep. Use the default PIN (13579 and "#") to verify access.

Normal lock operation

After PIN credentials have been programmed, enter a PIN to operate the lock as follows:

Credential	Action
Press a valid PIN	Green LED will blink and access granted

ⓘ **The "#" key is used as ENTER key for PINs with fewer than six digits. Default minimum digits is six (6). PIN length may be manually configured so users do not have to push the "#" key (see** *Change PIN Length2* ***on page 7*****).**

ⓘ **If the PIN credential is entered incorrectly, press "*" to start over.**

Lock status reports

Follow the steps below to obtain lock status reports:

ⓘ **Lock status reporting is available with firmware version 2.5.0 or higher.**

ⓘ **The left and right Schlage button LEDs will blink red once with each button press, followed by the status indicator as described below.**

Function / Report	Press	Indicator/Report result
Initiate report mode	Press and hold SCHLAGE while pressing 9 9 #	Wait until only the right Schlage button LED is on to indicate the lock is in report mode and awaiting an entry. If no entry is made, then timeout will occur in 20 seconds.
Battery status	1	Left LED: Solid green = excellent Blinking green = good Blinking red = low No indicator = critical battery

Once a status is reported, both left and right LEDs will light green, followed by solid green on the right LED only. The right green LED indicates the lock is awaiting another entry.

Obtain an additional status report as described below, or press * * to exit report mode.

Function / Report	Press	Indicator/Report result
Firmware status	3	Left LED blinks green for the version number Decimal point is indicated by one red blink "Zero" is indicated by two red blinks
Hardware status	4	
PCB serial number	6	Left LED blinks green for each number Each number is separated by two red blinks Press # after two red blinks to display the next number

If no entry is made within 20 seconds of the solid green right LED, then timeout will occur.

To exit report mode at any time, press * * .

Reset to factory defaults

All information in the main controller in the lock will be deleted and reset to factory defaults!

Main controller configurations that will reset to factory default include: programming and user codes.

The door must be locked (not toggled open or in the middle of normal access) before resetting to factory defaults.

Follow these steps to reset to factory defaults.

1. Remove the top inside cover.
2. Remove one battery from the battery pack to disrupt power. Wait 5 to 10 seconds for power to run out in the lock.
3. Press and hold the Schlage button while reconnecting the battery into the battery pack to resupply power.
4. Continue holding the Schlage button, and wait for two beeps to sound and two green blinks of the Schlage button.
5. Release the Schlage button.
6. Press and release the Schlage button three (3) times within 10 seconds of the beeps and blinks at step 4. One beep will sound and one red blink will occur with each press.
7. The Schlage button will light green for one second and a one-second beep will sound, indicating that the lock has been reset.

ⓘ **If the Schlage button is not pressed 3 times within 10 seconds, two beeps and two red blinks indicate timeout.**

8. Replace the top inside cover.

To test, enter 13579 and “#”. The Schlage button will blink and the lock will unlock momentarily.

Batteries

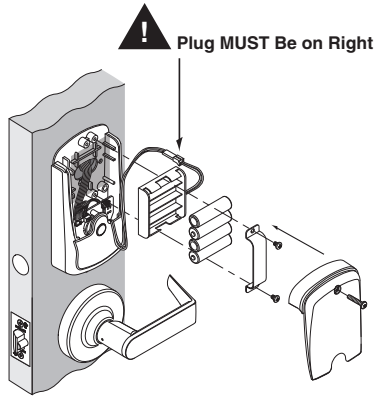
To install or replace alkaline batteries

ⓘ **Changing batteries does not affect any programmed data.**

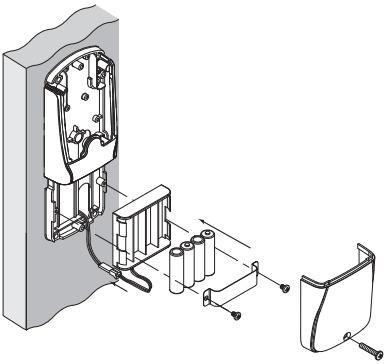
1. Remove the battery cover.
2. Remove the battery bracket. Do not allow the battery pack to hang from the wires.
3. Install the new batteries (install only new AA Alkaline batteries). Make sure the batteries are installed in the correct orientation.
4. Reinstall the battery pack and battery bracket.
5. Reinstall the battery cover, making sure the plug is to the right of the battery pack (CY, MS and MD locks). **Be careful not to pinch the battery wires when installing the battery cover.**

CAUTION! Danger of explosion if batteries are incorrectly replaced! Replace only with new AA alkaline batteries. Dispose of used batteries according to the manufacturer's instructions.

This product has been evaluated for ULC-S319 compliance with Duracell Procell PC1500 AA alkaline batteries and Panasonic CR2025 lithium coin cell. For installations requiring ULC-S319, these battery models should be used.



CY, MS, & MD



993

Low battery indications

Condition	Indicator	Solution
Batteries low	After credential PIN is pressed, 9 red blinks of Schlage button, then normal indicator.	Replace batteries immediately to avoid battery failure. Lock is intended to operate for 500 cycles in low battery condition.
Battery failure	No LED or beeps Valid credentials do not grant access	Replace batteries immediately. Mechanical override key must be used to unlock the lock.

Battery failure mode

In the event of battery failure, the lock will fail As-Is (lock remains in current state, locked or unlocked, until batteries are replaced).

LED reference

Schlage button

Condition	Lights
Access denied	2 red blinks
Valid PIN entered while lock in Freeze mode	12 red blinks indicating lockout
Factory default reset	One-second solid green with one-second beep
Low battery indicator, AA batteries	9 left red blinks
Momentary unsecured access	1 green blink, then one red blink on relock

Optional Inside Push Button (IPB)

Action	Lights
Office Mode	
Press IPB to lock	1 red blink
Press IPB to unlock[1]	1 green blink

1 Unlocking the lock with the IPB will cause the lock to remain unlocked until the IPB is depressed again.

Troubleshooting

Problem	Possible cause	Solution
The lock does not function when a valid PIN credential is entered, or the lock beeper does not sound.	The beeper may be turned off.	Use manual programming to enable the beeper (see *Disable/Enable Beeper* on page 7).
	The battery or wired power may be improperly connected.	Check that the battery or wired power is connected correctly.
	The batteries may be inserted with incorrect polarity.	Check that batteries are inserted in the correct polarity.
	The batteries may be depleted.	Replace batteries.
	If applicable, the IPB through-door ribbon cable may not be properly plugged in, or may have bent pins.	Check that the optional IPB through-door ribbon cable is plugged in correctly (if applicable). The red wire should be on the left and not pinched in the door.
		Check that there are no bent pins on the optional IPB through-door cable.
		Refer to the installation instructions that came with the CO-100 lock, or this user guide for details on the above mentioned procedures.

FCC Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. **this device may not cause harmful interference, and**
2. **this device must accept any interference received, including interference that may cause undesired operation.**

Customer Service

1-877-671-7011 www.allegion.com/us

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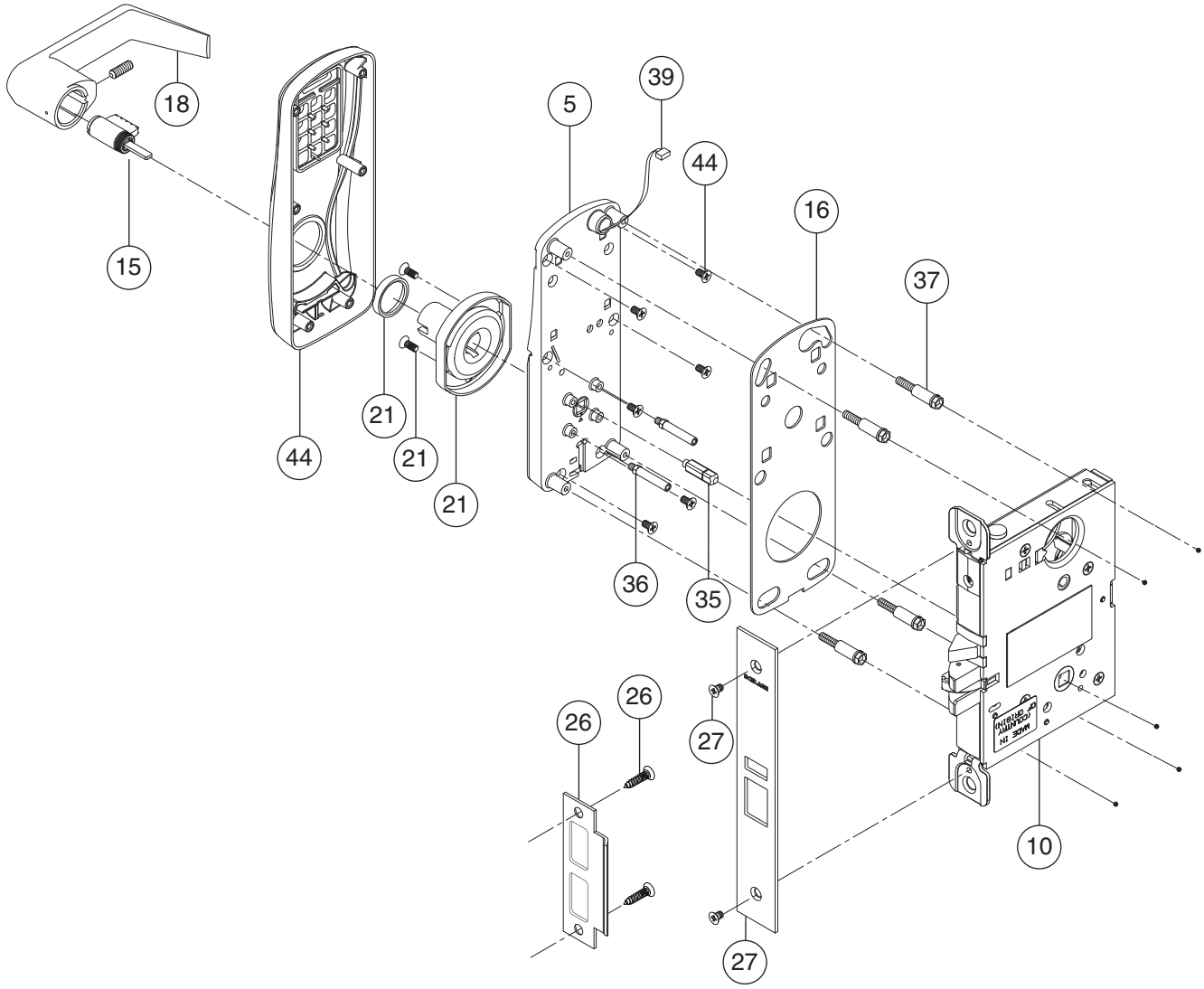
P516-270 Rev. 03/14-e

CO-100-MS KEYPAD ONLY

Exterior



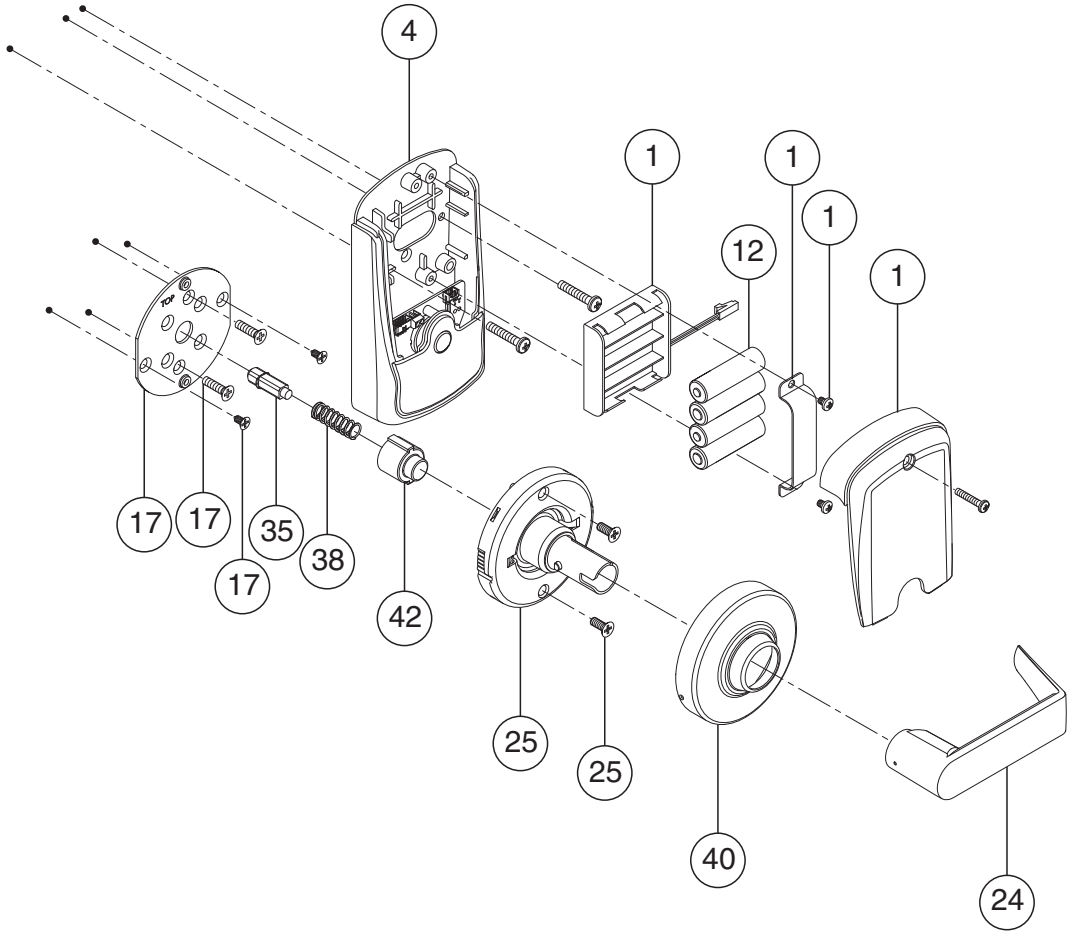
Number	Description		Part Number
5❖***	Baseplate Subassembly, MS		*See pg. 39*
10	Lock Case, Narrow, 1 1/16" wide		46928818
	Lock Case, 1¼" wide		46928826
15*	Cylinder		*See pg. 48*
16	Gasket Kit, Outside	Gasket, Baseplate	46929162
		Gasket, Reader	
18*	Lever, Outside		*See pg. 45*
21	Spring Cage, Outside	Spring Cage	*See pg. 46*
		Screws, Spring Cage	
		Gasket, O-Ring	
26*	Strike	Strike	*See pg. 44*
		Screws, Strike	
27*	Armor Front, MS/MD	Armor Front	*See pg. 44*
		Screws, Armor Front	
35⌘	Spindle		*See pg. 41*

Number	Description		Part Number
36⌘	Stand-Offs, MS/MD		*See pg. 41*
37⌘	Baseplate Stand-Offs		*See pg. 41*
39	Wiring Harness	Classroom/Storeroom	23518392
		Office/Privacy	23518384
44*†	Escutcheon, Keypad Only, MS/MD/993 (Assembly and Screws)	CO-100	23599061

* *Must specify Finish*
*** *This item only available as part of Exterior Escutcheon Assembly*
⌘ *This item only available as part of Door Thickness Kit*
❖ *Must specify Cylinder Type and Handing*
† *If using GD/BD Cylinder and Lever preparation, use part number 23599053*

CO-100-MS KEYPAD ONLY

Interior



Number	Description		Part Number
1*	4AA Battery Holder & Cover Kit	4AA Battery Holder	4B-CM
		4AA Battery Strap	
		Screws, Battery Strap (2)	
		4AA Battery Cover	
		Screw, Battery Cover (1)	
4*	Escutcheon, without IPB	Escutcheon, Inside	23599327
		Screws, Escutcheon	
	Escutcheon, with IPB	Escutcheon, Inside	23599335
		Screws, Escutcheon	
12	Batteries, AA		F206-488
17	Inside Mounting Plate Kit	Mounting Plate	23599244
		Screws, Mounting Plate (4)	
24*	Lever, Inside		03-030
25	Spring Cage, Inside	Spring Cage	23599210
		Screws, Spring Cage (2)	

Number	Description	Part Number
35⌘	Spindle	*See pg. 41*
38⌘	Spring	*See pg. 41*
40*	Rose, Inside	03-042-RHO
42	Hub	23599228

* *Must specify Finish*

⌘ *This item only available as part of Door Thickness Kit*